



EXPLANATION

Qal

Alluvium

Silt, sand, and gravel, stream-laid. Locally derived material. Yields little or no water to wells

Qs

Gravel

Gravel and sand composed of reworked Pliocene and Miocene deposits. Does not yield water to wells in the area

Qp

Landslide material

Sandstone and conglomerate derived from the Browns Park formation. Does not yield water to wells in the area. Small springs issue at the base of the material

Qp

Phiocene deposits, undifferentiated

Conglomerate, gray; contains pebbles, cobbles, and boulders derived from a shale and sandstone of Mesozoic age. Does not yield water to wells in the area

Tpm

Pliocene and Miocene rocks, undifferentiated

Sandstone, gray to brown, fine- to coarse-grained; contains beds of conglomerate; basal section composed of reworked Precambrian, Paleocene, and Mesozoic rocks. Yields moderate supplies of water to wells

Tbu

Browns Park formation

Upper part of Browns Park formation, (Tbu). Sandstone, gray, white, and brown, fine- to medium-grained; contains fragments of older deposits. Many springs issue at base of formation; would yield moderate supplies of water to wells. Basal conglomerate of Browns Park formation, (Tbc). Conglomerate and sandstone composed of quartz, quartzite, and diabase pebbles in sandstone and volcanic-ash matrix. Yields moderate to large supplies of water to wells

Tbc

Fort Union formation

Shale and sandstone; zones of interbedded shale and sandstone alternating with zones of shale; contains carbonaceous material and coal beds. Small supplies of water could be obtained from the sandstone beds

Tbc

Lance formation

Shale and sandstone in alternating beds; contains lignite and beds of highly fossiliferous shale. Small supplies of water could be obtained from sandstone beds

Tbc

Lewis shale

Shale, dark-gray, fissile to sandy, buff, contains bentonite and sandstone lenses. Sandstone lenses will yield very small quantities of water to wells

Kmv

Messaverde formation

Sandstone, fine- to medium-grained, gray to brown, and sandy, dark-gray to gray shale. Not known to yield water to wells, but small supplies probably could be obtained from the sandstone beds

Ks

Steele shale

Shale and clay, blue-gray, gray, and yellow, calcareous; chalky in places; contains some sandstone beds. Yields moderate to large quantities of water, usually under artesian head

Km

Niobrara formation

Shale, dark-gray, sandy; with beds of limestone. Yields moderate supplies of water to wells

Ks

Frontier formation

Shale, gray to dark-gray, dense, siliceous; contains fish scales. Yields little or no water to wells

Kmv

Morrison shale

Shale, gray to dark-gray; contains thin lenses of sandstone. Yields little or no water to wells

Kt

Thermopolis shale

Sandstone with beds and lenses of shale separating the upper sandstone from a local conglomerate. Yields moderate to large quantities of water, usually under artesian head

Kc

Cloverly formation

Sandstone, fine- to coarse-grained, buff to white; in part crossbedded. Will yield very small quantities of water to wells

Kd

Morrison formation

Shale, variegated, and sandstone with thin lenses of limestone. Yields little or no water to wells

Kd

Sundance formation

Limestone and shale in upper part. Sandstone with lenses of shale and limestone in lower part. Moderate to small supplies of water probably could be obtained from sandstone beds

Kd

Nugget sandstone

Sandstone, fine- to coarse-grained, buff to white; in part crossbedded. Will yield very small quantities of water to wells

Kd

Chugwater formation

Shale and sandstone and one thin bed of limestone; very highly colored. Small supplies of water could be obtained from sandstone beds

Kd

Permian rocks, undifferentiated

Shale, limestone, and sandstone; color ranges from gray to purple with some shades of green and orange. Would yield very small quantities of water to wells

Kd

Tensleep sandstone

Sandstone, medium- to fine-grained with some beds of limestone. Sandstone is slightly calcareous. Yields moderate quantities of water to wells

Kd

Amoset formation

Shale, sandy, reddish; limestone and sandy shale interbedded; and sandstone, hard, fine-grained. Would yield very small quantities of water to wells

Kd

Madison limestone

Limestone, gray; contains chert and lenses of brownish dolomite. Yields moderate quantities of water to wells

Kd

Cambrian rocks, undifferentiated

Sandstone, medium-grained, varicolored, with lenses of quartzite, and shale with traces of siltstone and sandstone. Yields moderate quantities of water to wells and springs

Kd

Quartz-diorite, gneiss, and schist

Weathered material could yield small quantities of water to wells

Contact

Dashed where approximately located

U

Fault

U, upthrown side; D, downthrown side

Inferred or covered fault

Strike and dip of beds

↑

Anticline

[10ac]

Domestic or stock well

Upper number indicates last number of well as described in the section well-numbering system. Lower number indicates depth to water below land surface. Brackets indicate chemical analysis of water given

●

Flowing well

□

Test well

○

Spring

◆

Oil-well test

↑ 15°

TRUE NORTH

↑ 15°

MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION 1958

1. J. A. Barlow, 1952
2. J. H. Buehner, 1936
3. G. L. Del Mauro, 1953

GEOLOGIC MAP SHOWING LOCATION OF WELLS, SPRINGS, AND TEST WELLS IN THE RAWLINS AREA, CARBON COUNTY, WYOMING

Map compiled by D. W. Berry